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## PRODUCT RELEASE ANNOUNCEMENT

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Product Category	<b>Publish 3D</b>
Product Group	NX for 3D PDF
Release Version	19.0

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## History

Revision	Update Information
<b>1.0</b>	Initial Release
<b>2.0</b>	<i>Updated Save As CD Images to version .02. This change made to deliver missing run-time libraries</i>

## Product Codes

<b>Product Code</b>	<b>Product Description</b>
<b>NXPDF-U1</b>	NX Publish 3D On Demand Interactive & Batch processing
<b>NXPDF-I1</b>	NX Publish 3D Interactive

## Supported Application Revisions

The following application revisions have been qualified with this release

Application	Revision
<b>NX</b>	NX 8.5, NX 9.0, NX10
<b>Adobe Reader</b>	Adobe Reader XI

## Supporting API's

The following supporting API support is used

Application	Revision
<b>3D PDF API</b>	HOOPS Exchange Publish 2015 (v8.1)

## Supported Operating Systems

The following operating systems have been qualified with this release

Operating System	Qualification Status
<b>Windows 7 64bit</b>	Qualified and fully supported



## Distribution Media

CD images of the latest release are available from the following download sites.

NX Version	URL for CD image download
<b>On Demand support for ALL Versions</b>	<a href="#">cdCAD 19.0 NXPDF WIN64.01.zip</a>
<b>NX 8.5 Interactive</b>	<a href="#">cdCAD 19.0 NXPDF WIN64 R85SAVEAS.02.zip</a> <sup>(v2.0)</sup>
<b>NX 9.0 Interactive</b>	<a href="#">cdCAD 19.0 NXPDF WIN64 R90SAVEAS.02.zip</a> <sup>(v2.0)</sup>
<b>NX 10 Interactive</b>	<a href="#">cdCAD 19.0 NXPDF WIN64 R100SAVEAS.02.zip</a> <sup>(v2.0)</sup>
<b>Unified Interface</b>	<a href="#">cdCAD 19.0 UI WIN64.01.zip</a>



## New Features / Enhancements

The following new features or enhancements have been introduced with this release

Ref ID	New Feature / Enhancement Description
1	<p><i>Section View Processing:</i> NX read option have been added to simulate section views by dynamically creating the sectioned body displayed in the view. The purpose of this is to better handle multiple cuts AND more consistent capping.</p> <p>Additional hidden advanced arguments have been added to support trimming and adjusting capping on section bodies</p>
2	<p><i>Datum Plane Borders:</i> The creation of 4 datum plane bounding lines to mimic NX section lines has been added as a default</p>
3	<p><i>Updated API Support:</i> Hoops v8.1 libraries have been adopted</p>
4	<p><i>PDF File Size:</i> Files containing PMI are now smaller in size</p>
5	<p><i>PDF Table Enhancements:</i> BOM and Instance tables now support top level Nodes (REQ00132)</p> <p>Text Size, RGB and justification controls have been added</p>
6	<p><i>Auto File Suffix:</i> PDF files are now auto-named with the .pdf suffix</p>
7	<p><i>Semantic PMI:</i> Semantic PMI attributes are added into the PDF file definition</p>
8	<p><i>Level of Detail:</i> level of detail now defaults to Medium which produces smaller files with no degradation in quality. 'ultra_low' also added as an option.</p>
9	<p><i>Hidden Wireframe:</i> Hidden wireframe is now not processed by default</p>
10	<p><i>Publishing Template Updates:</i> Templates now support:</p> <ul style="list-style-type: none"> <li>• Centre of Rotation button option</li> <li>• Enhanced user interaction via flexible javaScript utilities</li> <li>• Scroll / 3D / Assembly /Property Panel interaction</li> <li>• Scroll table scroll bar</li> <li>• Enhanced table row filtering</li> <li>• Digital Signature</li> </ul>
11	<p><i>PDF Document Properties:</i> Title, Author and Subject can now be specified (REQ00147)</p>
12	<p><i>View Optimization:</i> View zoom factors are optimized and can be controlled by user selection. In addition improvements have been made to the clipping of</p>



	models within views, ensuring the near and far clipping planes allow for the model size.
<b>13</b>	<i>Mirrored Components:</i> Mirrored components with no scaling are now supported
<b>14</b>	<i>Small PMI:</i> Very small PMI objects (<3mm) previously appeared very course. Now resolved.
<b>15</b>	<i>PMI Edge Associations:</i> PMI edge highlighting is now supported. This can be disabled via the 'no_pmi_edge_associations' option
<b>16</b>	<i>Configuration Options:</i> The precedence of command line arguments and configuration file arguments can now be set
<b>17</b>	<i>View Grouping:</i> By default the geometry for each view is grouped into a single node. A secondary method has been made available ('view_geom_exploded') that creates a node for each referenced geometric item. In some cases this can produce a faster translation and smaller files size, dependent upon how many views there are and how much geometry is shared between views
<b>18</b>	<i>Robustness Improvements:</i> General robustness improvements have been made
<b>19</b>	<p><i>Section Properties:</i> Control of the following section properties have been added (REQ00153):</p> <ul style="list-style-type: none"> <li>• Cutting Plane Visibility</li> <li>• Capping Visibility</li> <li>• Cutting Plane Intersections Visibility</li> <li>• Cutting Plane Opacity</li> <li>• Cutting Plane Colour</li> <li>• Cutting Plane Intersections Colour</li> </ul>
<b>20</b>	<i>Instance Table Sequence Numbers:</i> Added support for Instance Table sequence numbers (REQ00131)
<b>21</b>	<i>Standard View Names:</i> Standard View prefixes are now controlled via the manifest file (REQ00128)
<b>22</b>	<i>Configurable Selection Box Part Names:</i> Users can now elect which property is to be used to display as a Part Name in the selection box (REQ00120)





## Known Limitations and Restrictions

The following limitations and restrictions have been identified during final testing prior to release

Ref ID	Limitations and Restrictions
1	<i>Help Shortcut:</i> The Help short-cut points to <install_dir\help.html. This redirects to the latest help on the web site at <a href="http://www.theorem.com/Documentation">http://www.theorem.com/Documentation</a> There is, however, no short-cut to the help shipped on the CD, which can be accessed at: <install_dir\Guides\NX_3DPDF_index.htm
2	<i>PMI Flipping:</i> PDF does not support flipped PMI
3	<i>Unified Interface Viewer Export:</i> When exporting from the Unified Interface, the output name uses the top level assembly name by default, regardless of selection. This can be overridden via the <i>Translator Options-&gt;Confirmation</i> panel
4	<i>Unified Interface Viewer:</i> The Unified Interface Viewer does not display PMI at the assembly level
5	<i>Unified Interface Viewer:</i> There is no option to export the entire assembly from the Viewer, when nothing is selected
6	<i>NX Integrated Help:</i> No help is provided via the menu option on the NX Integrated Menu. Refer to <a href="http://www.theorem.com/Documentation">http://www.theorem.com/Documentation</a>
7	<i>NX License Error:</i> If there is no NX license available the translator will fail with a “Fatal Error detected” error.



## Resolved Support Calls

The following list of Support Call issues are resolved with this release

<b>Support Call ID</b>	<b>Brief Description</b>
<b>CAS-02132</b>	<i>Lightweight Sections:</i> Support added for single plane lightweight section views The creation of 4 datum plane bounding lines to mimic NX section lines has been added as a default
<b>CAS-02144</b>	<i>Staggered Sections:</i> Support added for staggered section views
<b>CAS-02359</b>	<i>Lightweight Box Sections:</i> Support added for lightweight box section views

